



Contract No. 009359	Station Section 1	Mile/Line: I-90	C/S
Staked by Survey	Date 8/5/2019	Work Started Date	Work Completed Date
Calculated by Scott Busby	Date 9/5/2019	Checked by E. Knudson	Inspector Scott Busby
		Date 9/10/2019	Date 9/5/19

ITEM NO. 15
Section 1 - I-90, MP 33.44 to MP 136.43
BEAM GUARDRAIL TYPE 31

Est. #6

Group Number 8

8/6/2019 - I-90

- Station MP 110.78 R5 Exit 110 off ramp 0.33 LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts
- **8** steel posts
- Station MP 110.78 R5 Exit 110 off ramp 0.66 RT WB - Sheet 1 - Install **50 LF** of Beam Guardrail Type 31
- $50 - 37.5 = 12.5$ (6 posts) + $(12.5/6.25 = 2)$ Total of **8** wood posts
- **8** steel posts

Sub Total: $(37.5+50) = \mathbf{87.5\ LF}$ Installed beam guardrail type 31

$(6+8) = \mathbf{14\ EA}$ wood posts
 $(8*2) = \mathbf{16\ EA}$ steel posts

8/7/2019 - I-90

- Station MP 85.88 Main LT WB - Sheet 4 - Install **87.5 LF** of Beam Guardrail Type 31
- $87.5 - 37.5 = 50$ (6 posts) + $(50/6.25 = 8)$ Total of **14** wood posts
- **8** steel posts
- Station MP 102.32 Main RT EB - Sheet 4 - Install **50 LF** of Beam Guardrail Type 31
- $50 - 37.5 = 12.5$ (6 posts) + $(12.5/6.25 = 2)$ Total of **8** wood posts
- **8** steel posts

Sub Total: $(87.5+50) = \mathbf{137.5\ LF}$ Installed beam guardrail type 31

$(14+8) = \mathbf{22\ EA}$ wood posts
 $(8*2) = \mathbf{16\ EA}$ steel posts

8/8/2019 - I-90

- Station MP 115.20 P1 Exit 115 off ramp 0.25 RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts

- **6** steel posts (TL-2)
- Station MP 115.20 P1 Exit 115 off ramp 0.26 LT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts
- **6** steel posts (TL-2)
- Station MP 118.32 Main RT WB - Sheet 2 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** steel posts - See Note 5, plan A4, Sheet 8 (Typical - MP 118.32 on.
- **8** steel posts (Typical - TL-3 terminals)

Sub Total: (37.5*3) = **112.5 LF** Installed beam guardrail type 31
 (6+6) = **12 EA** wood posts
 6 EA steel posts

(Typical - End terminals)
 (6*2)+8 = **20 EA** steel posts

8/9/2019 - I-90

- Station MP 93.29 S1 Exit 93 on ramp 0.24 RT WB - Sheet 3 - Install **187.5 LF** of Beam Guardrail Type 31
- 187.50 - 37.5 = 37.5 (6 posts) + (150/6.25 = 24) Total of **30** wood posts

Sub Total: (187.5) = **187.5 LF** Installed beam guardrail type 31
 = **30 EA** wood posts

(Typical - TL-3 terminals) = **8 EA** steel posts

8/22/2019 - I-90

- Station MP 82.20 Main RT EB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** wood posts
- **8** steel posts

Sub Total: **37.5 LF** Installed beam guardrail type 31
 (37.5/6.25) = **6 EA** wood posts

(Typical - TL-3 terminals) = **8 EA** steel posts

8/29/2019 - I-90

- Station MP 120.08 Main LT EB - Sheet 3 - Install **275 LF** of Beam Guardrail Type 31
- (275/6.25 = 44) Total of **44** steel posts
- **8** steel posts (Typical - TL-3 terminals)
- Station MP 120.89 Main LT EB - Sheet 8 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** steel posts
- **8** steel posts (Typical - TL-3 terminals)

Sub Total: (275+37.5) = **312.5 LF** Installed beam guardrail type 31
 (312.5/6.25) = **50 EA** steel posts

(Typical - TL-3 terminals)
 (2*8) = **16 EA** steel posts

8/30/2019 - I-90

- Station MP 136.43 LX Exit 136 0.03 RT - Install **37.5 LF** of Beam Guardrail Type 31
- $(37.5/6.25) = 6$ steel posts
- **6** steel posts (TL-2)

- 136.43 LX Exit 136.43 0.12 LT - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31
- $(37.5/6.25) = 6$ steel posts
- **6** steel posts (TL-2)

Sub Total: $(37.5*2) =$ **75 LF** Installed beam guardrail type 31
 $(6*2) =$ **12 EA** steel posts
(Typical - TL-2 terminals)
 $(2*6) =$ **12 EA** steel posts

9/4/2019 - I-90

- Station 119.31 Main RT WB - Sheet 3 - Install **112.5 LF** of Beam Guardrail Type 31
- $(112.5/6.25) = 18$ steel posts
- (Typical - TL-3 terminals) = **8** steel posts

- Station 119.82 Main RT WB - Sheet 3 - Install **750 LF** of Beam Guardrail Type 31
- $750/6.25 = 116$ Total of **120** steel posts
- (Typical - TL-3 terminals) = **8** steel posts

Sub Total: $(112.5+750) =$ **862.5 LF** Installed beam guardrail type 31
 $(18+120) =$ **138 EA** steel posts
(Typical - TL-3 terminals)
 $(2*8) =$ **16 EA** steel posts

9/5/2019 - I-90

- Station 121.00 Main LT WB - Sheet 8 - Install **37.5 LF** of Beam Guardrail Type 31
37.5 - (6 posts) for a total of **6** steel posts
8 steel posts

- Station 121.15 Main LT EB - Sheet 8 - Install **37.5 LF** of Beam Guardrail Type 31
- 37.5 - (6 posts) for a total of **6** steel posts
- **8** steel posts

- Station 121.61 Main LT WB - Sheet 1 - Install **37.5 LF** of Beam Guardrail Type 31 - 11
- 37.5 - (6 posts) for a total of **6** steel posts
- **8** steel posts

Sub Total: $(37.5*3) =$ **112.5 LF** Installed beam guardrail type 31
 $(6*3) =$ **18 EA** steel posts
(Typical - TL-3 terminals)
 $(3*8) =$ **24 EA** steel posts

Item Num	Material Brand Name/Model Type	Manufacturer	Brand Name/Model Type	RAMS/QPL Ref. No.	Appr/Acc Code	Basis of Accept
015.02		Trinity Highway Products, LLC		QPL-0001	2215 /	Mfr. Cert. per Stnd. Spec. 1-06.3

	Beam Guardrail Thrie Beam Elements and Components						
015.03	Beam Guardrail Wood Post and Blocks	Superior Wood Treating		QPL-0005	2550	/	Lumber Grading Stamp or Grading Certificate and Certificate of Treatment. (If Aquatic Envir. Std. Spec. 9-09.3 (1) Applies)
015.04	Beam Guardrail Steel Post and Blocks	Trinity Highway Products, LLC		QPL-0002	2215	/	Mfr. Cert. per Stnd. Spec. 1-06.3

Item Num	Item Description	Grp	Date Work Complete	Unit	Quantity	Ledger Entry No.	Posted By Init.	Posted By Date	Checked By Init.	Checked By Date	Est. No.
0015	BEAM GUARDRAIL TYPE 31	8	9/5/2019	L.F.	1,925	247	EK	09/11/19			6
0015	BEAM GUARDRAIL TYPE 31	10	9/5/2019	L.F.	75	248	EK	09/11/19			6
0015	BEAM GUARDRAIL TYPE 31	11	9/5/2019	L.F.	87.5	249	EK	09/11/19			6

Attachments



Things to do 82-2.xlsx
Microsoft Excel
Worksheet
409 KB

DOT Form IP 422-635ER EF
Revised 4/2009